Ting-Rui (Ray) Chiang

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Research Interests

Natural Language Processing, Machine Learning

Education

2022 - Now	**University of Southern California** Ph.D. of Computer Science Advisor: Dani Yogatama
2020 - 2022	**Carnegie Mellon University** Master of Language Technology
2018 - 2020	**National Taiwan University** Master of Computer Science and Information Engineering Advisor: Yun-Nung (Vivian) Chen
2014 - 2018	**National Taiwan University** Bachelor of Computer Science and Information Engineering

Working Experiences

2023	Summer Intern at Reka AI Inc.
2022	Applied Scientist Summer Intern at Amazon Seattle
2018	Summer Intern at Taiwan AI Labs
2017	Summer Intern at Academia Sinica

Teaching Experiences

2023	Teaching Assistant of CSCI-567 Machine Learning at USC
2022	Teaching Assistant of CS-11737 Multilingual NLP at CMU
2020,2019	Teaching Assistant of CSIE-5431 Applied Deep Learning at NTU
2017,2018	Teaching Assistant of CSIE-2311 Network/System Admin. at NTU

Publications

1. **Ting-Rui Chiang**, Dani Yogatama, "Understanding In-context Learning with ...," (under review).

2. **Ting-Rui Chiang**, Dani Yogatama, "The Distributional Hypothesis Does Not Fully Explain the Benefits of Masked Language Model Pretraining," in *Proceedings of the 2023 Conference on Empirical Methods in Natural Language Processing* (EMNLP 2023, full paper).

3. **Ting-Rui Chiang**, "On a Benefit of Mask Language Modeling: The Robustness to Simplicity Bias," in *Proceedings of the 3nd Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 13th International Joint Conference on Natural Language Processing* (IJCNLP-AACL 2023, full paper, oral).

4. **Ting-Rui Chiang**, Yi-Pei Chen, Yi-Ting Yeh, and Graham Neubig, "Breaking Down Multilingual Machine Translation," in *Findings of the Association for Computational Linguistics: ACL 2022* (ACL 2022, Findings, full paper).

5. **Ting-Rui Chiang**, and Yun-Nung Chen, "Relating Neural Text Degeneration to Exposure Bias," in *Proceedings of the Fourth BlackboxNLP Workshop on Analyzing and Interpreting Neural Networks for NLP (BlackboxNLP@EMNLP 2021)*.

6. **Ting-Rui Chiang**, and Yi-Ting Yeh, "Improving Dialogue State Tracking by Joint Slot Modeling," in *Proceedings of the 3rd Workshop on Natural Language Processing for Conversational AI (NLP for ConvAI@EMNLP 2021)*.

7. **Ting-Rui Chiang***, Yi-Ting Yeh*, Ta-Chun Chi and Yao-Shian Wang, "Are you doing what I say? On modalities alignment in ALFRED," in *Proceedings of the 1st Workshop on Novel Ideas in Learning-to-Learn through Interaction. (NILLI@EMNLP 2021)*.

8. **Ting-Rui Chiang**, Hao-Tong Ye and Yun-Nung Chen, "An Empirical Study of Content Understanding in Conversational Question Answering," in *Proceedings of Thirty-Forth AAAI Conference on Artificial Intelligence (AAAI 2020, full paper, oral)*, New York, New York, USA, 2020.

9. **Ting-Rui Chiang** and Yun-Nung Chen, "Semantically-Aligned Equation Generation for Solving and Reasoning Math Word Problems," in *Proceedings of The 17th Annual Conference of the North American Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL-HLT 2019, full paper, oral)*, Minneapolis, USA, June 2-7, 2019.

10. **Ting-Rui Chiang**, Chao-Wei Huang, Shang-Yu Su, Yun-Nung Chen,"Learning Multi-Level Information for Dialogue Response Selection by Highway Recurrent Transformer," in *The 7th Dialog System Technology Challenge (DSTC7) in Proceedings of Thirty-Third AAAI Conference on Artificial Intelligence (AAAI 2019)*, Honolulu, Hawaii, USA, 2019.

11. **Ting-Rui Chiang***, Chao-Wei Huang*, Shang-Yu Su, Yun-Nung Chen,"RAP-Net: Recurrent Attention Pooling Networks for Dialogue Response Selection," in *The 7th Dialog System Technology Challenge (DSTC7) in Proceedings of Thirty-Third AAAI Conference on Artificial Intelligence (AAAI 2019)*, Honolulu, Hawaii, USA, 2019.